



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04L 9/00, 7/32, H04N 1/40, H03M 7/30, G06F 15/40</p>	<p>A1</p>	<p>(11) International Publication Number: WO 98/51035 (43) International Publication Date: 12 November 1998 (12.11.98)</p>
<p>(21) International Application Number: PCT/US98/09441 (22) International Filing Date: 9 May 1998 (09.05.98) (30) Priority Data: 60/046,037 9 May 1997 (09.05.97) US 08/967,383 8 November 1997 (08.11.97) US 09/023,918 13 February 1998 (13.02.98) US (71) Applicant (for all designated States except AL KP): NEOMEDIA TECHNOLOGIES, INC. [US/US]; Suite 600, 2201 Second Street, Fort Myers, FL 33901 (US). (71)(72) Applicants and Inventors (for AL KP only): DURST, Robert, T., Jr. [US/US]; 6054 Timberwoods Circle #240, Fort Myers, FL 33908 (US). HUNTER, Kevin [US/US]; NeoMedia Technologies, Inc., Suite 600, 2201 Second Street, Fort Myers, FL 33901 (US). (74) Agent: BARKUME, Anthony, R.; Anthony R. Barkume, P.C., Suite 200, 14 South Main Street, Sayville, NY 11782 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p>

(54) Title: METHOD AND SYSTEM FOR ACCESSING ELECTRONIC RESOURCES VIA MACHINE-READABLE DATA ON INTELLIGENT DOCUMENTS

(57) Abstract

A method of accessing electronic resources via machine readable data embedded on a document which comprises compressing input data with a transmitter adapted to save a first bandwidth using a compression method adapted to minimize utilization of bandwidth by the compressed input data while retaining substantially all information content of the input data and appending a compression flag to the compressed input data indicative of the compression method enabling a receiver to decompress the compressed input data. The compression step further comprises utilizing a compression dictionary adapted to map the elements and strings of the input data to minimized representations having redundancies deleted. The compression dictionary may be appended to the compressed input data (as cleartext or cyphertext) under circumstances where a bandwidth occupied by the appended compression dictionary is less than the bandwidth saved by the step of compressing the input data. The compression dictionary may also be selected by the receiver independently from the transmitter independently indexes, pointer registration, application restricted subsets or customized according to the input data content. Also the input data may be encrypted, and an encryption flag appended which is indicative of the encryption method enabling decryption via public or private key cryptosystems as well as utilizing various authentication techniques such as digital signatures to ensure that the document was created by a licensed user.

